

Title (en)

METHOD AND SYSTEM FOR PROVIDING A DUAL CURTAIN GAS TO A MASS SPECTROMETRY SYSTEM

Title (de)

VERFAHREN UND SYSTEM ZUR BEREITSTELLUNG EINER DOPPELGASVORHANGS FÜR EIN MASSENSPEKTROMETRIESYSTEM

Title (fr)

PROCÉDÉ ET SYSTÈME POUR FOURNIR UN DOUBLE RIDEAU DE GAZ À UN SYSTÈME DE SPECTROMÉTRIE DE MASSE

Publication

EP 2621612 A4 20170111 (EN)

Application

EP 11831166 A 20110914

Priority

- US 38691710 P 20100927
- US 2011051543 W 20110914

Abstract (en)

[origin: WO2012047465A1] A system and method for mass spectrometry including a curtain gas chamber defined by a curtain plate having an aperture for receiving ions from an ion source and an orifice plate having an inlet into a mass spectrometer. At least one barrier separates the curtain chamber into a first curtain gas chamber region and a second curtain gas chamber region. At least one gas source provides a gas inflow into the second curtain gas chamber region and a gas outflow into the first curtain gas chamber region, a portion of the gas outflow directed out of the aperture. A heating element heats the gas inflow, a portion of the heated gas inflow directed into the inlet of the mass spectrometer wherein the portion of the heated gas inflow can be at a substantially higher temperature than the portion of the gas outflow.

IPC 8 full level

H01J 49/04 (2006.01)

CPC (source: EP US)

H01J 49/02 (2013.01 - US); **H01J 49/044** (2013.01 - EP US)

Citation (search report)

- [X] US 2009294650 A1 20091203 - SCHNEIDER BRADLEY [CA], et al
- [I] US 4023398 A 19770517 - FRENCH JOHN BARRY, et al
- [A] US 2009294648 A1 20091203 - SCHNEIDER BRADLEY [CA], et al
- See references of WO 2012047465A1

Designated contracting state (EPC)

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DOCDB simple family (application)

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